CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.03/MBH/CSR-1/730/CUBE/2014-15 20.01.2015

TEST REPORT ON CONCRETE CUBES

* Client	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. M.B. Hombal,** No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.
* Name of the work	: Construction of culverts and improvements of drains in Akshyanagara area in Attur Ward No.03, BBMP, Bangalore.
* Reference	: BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015
* Sample ID	: Covering Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as o	: 7^{th} day
Sample Received on	: 20.01.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.01.2015	20.01.2015	8.109	329.6	14.65
2	13.01.2015	20.01.2015	8.269	339.6	15.09
3	13.01.2015	20.01.2015	8.318	349.6	15.54

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager

AEE

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
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T-2377

Job No.: CTCE/BBMP/W.No.03/MBH/CSR-1/730/CUBE/2014-15

23.01.2015

TEST REPORT ON CONCRETE CUBES

* Client	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. M.B. Hombal,** No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.
* Name of the work	: Construction of culverts and improvements of drains in Akshyanagara area in Attur Ward No.03, BBMP, Bangalore.
* Reference	: BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015
* Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as o	: 7^{th} day
Sample Received on	: 23.01.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.01.2015	23.01.2015	8.189	336.6	14.96
2	16.01.2015	23.01.2015	8.290	346.3	15.39
3	16.01.2015	23.01.2015	8.368	362.6	16.12

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T-2377

Job No.: CTCE/BBMP/W.No.03/MBH/CSR-1/730/CUBE/2014-15 19.01.2015

TEST REPORT ON CONCRETE CUBES

* **Client** : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. M.B. Hombal,** No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.

* **Name of the work** : Construction of culverts and improvements of drains in Akshyanagara area in Attur Ward No.03, BBMP, Bangalore.

* **Reference** : BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015

* **Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{15}

Compressive Strength as o: 7^{th} day

Sample Received on : 19.01.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.01.2015	19.01.2015	8.120	250.3	11.12
2	12.01.2015	19.01.2015	8.239	262.3	11.66
3	12.01.2015	19.01.2015	8.310	278.3	12.37

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Job No.: CTCE/BBMP/W.No.03/MBH/CSR-1/730/CUBE/2014-15 19.01.2015

TEST REPORT ON CONCRETE CUBES

* Client	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. M.B. Hombal,** No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.
* Name of the work	: Construction of culverts and improvements of drains in Akshyanagara area in Attur Ward No.03, BBMP, Bangalore.
* Reference	: BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as o	: 7^{th} day
Sample Received on	: 19.01.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.01.2015	19.01.2015	8.256	252.9	11.24
2	12.01.2015	19.01.2015	8.329	270.3	12.01
3	12.01.2015	19.01.2015	8.406	280.3	12.46

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Job No.: CTCE/BBMP/W.No.03/MBH/STEEL/2014-15 09.01.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. M.B. Hombal,** No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.
Name of the Work	:	Construction of culverts and improvements of drains in Akshyanagara area in Attur Ward No.03, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015
Date of Test	:	09.01.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	516	559	13.55	O.K	O.K

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Job No.: CTCE/BBMP/W.No.03/MBH/CSR-1/730/CC Blocks/2014-15 11.12.2014

TEST REPORT ON CEMENT CONCRETE SOLID BLOCKS

*Customer : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

*Agency : **Mr. M.B. Hombal,**
No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.

*Name of Work : Construction of culverts and improvements of drains in Akshyanagara area in Attur Ward No.03, BBMP, Bangalore.

* Reference : BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015

Sample Received on : 09.01.2015

Date of Testing : 09.01.2015

Size of Block : 400 mm x 200 mm x 200 mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08

Sl.No.	* Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum Compressive Strength individual units
			kN	N/mm^2	N/mm^2
1	09.01.2015	09.01.2015	260.3	3.25	3.2
2	09.01.2015	09.01.2015	258.6	3.23	
3	09.01.2015	09.01.2015	262.2	3.28	
4	09.01.2015	09.01.2015	260.3	3.25	
5	09.01.2015	09.01.2015	259.3	3.24	
6	09.01.2015	09.01.2015	261.2	3.27	
7	09.01.2015	09.01.2015	260.5	3.26	
8	09.01.2015	09.01.2015	261.5	3.27	

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Job No.: CTCE/BBMP/W.No.03/MBH/CSR-1/730/CC Blocks/2014-15 11.12.2014

TEST REPORT ON CEMENT CONCRETE SOLID BLOCKS

*Customer : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

*Agency : **Mr. M.B. Hombal,**
No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.

*Name of Work : Construction of culverts and improvements of drains in Akshyanagara area in Attur Ward No.03, BBMP, Bangalore.

* Reference : BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015

Sample Received on : 09.01.2015

Date of Testing : 09.01.2015

Size of Block : 400 mm x 100 mm x 200 mm

Cross Sectional Area : 40000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08

Sl.No.	* Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum Compressive Strength individual units
			kN	N/mm^2	N/mm^2
1	09.01.2015	09.01.2015	128.5	3.21	
2	09.01.2015	09.01.2015	129.6	3.24	
3	09.01.2015	09.01.2015	130.2	3.26	
4	09.01.2015	09.01.2015	131.3	3.28	
5	09.01.2015	09.01.2015	129.8	3.25	3.2
6	09.01.2015	09.01.2015	130.2	3.26	
7	09.01.2015	09.01.2015	128.3	3.21	
8	09.01.2015	09.01.2015	129.3	3.23	

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